

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/800,487D
Source: IFW/6
Date Processed by STIC: 10/2/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/800,487D

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.
 4 McSwiggen, James
 6 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Intercellular
 Adhesion
 7 Molecule (ICAM) Gene Expression Using Short Interfering Nucleic
 8 Acid (siNA)
 10 <130> FILE REFERENCE: 400/148 (MBHB04-218)
 12 <140> CURRENT APPLICATION NUMBER: US 10/800,487D
 13 <141> CURRENT FILING DATE: 2004-03-15
 15 <150> PRIOR APPLICATION NUMBER: US 10/757,803
 16 <151> PRIOR FILING DATE: 2004-01-15
 18 <150> PRIOR APPLICATION NUMBER: US 10/720,448
 19 <151> PRIOR FILING DATE: 2003-11-24
 21 <150> PRIOR APPLICATION NUMBER: US 10/693,059
 22 <151> PRIOR FILING DATE: 2003-10-23
 24 <150> PRIOR APPLICATION NUMBER: US 10/444,853
 25 <151> PRIOR FILING DATE: 2003-05-23
 27 <150> PRIOR APPLICATION NUMBER: US 10/427,160
 28 <151> PRIOR FILING DATE: 2003-04-30
 30 <150> PRIOR APPLICATION NUMBER: PCT/US03/05346
 31 <151> PRIOR FILING DATE: 2003-02-20
 33 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028
 34 <151> PRIOR FILING DATE: 2003-02-20
 36 <150> PRIOR APPLICATION NUMBER: US 60/358,580
 37 <151> PRIOR FILING DATE: 2002-02-20
 39 <150> PRIOR APPLICATION NUMBER: US 60/363,124
 40 <151> PRIOR FILING DATE: 2002-03-11
 42 <150> PRIOR APPLICATION NUMBER: US 60/386,782
 43 <151> PRIOR FILING DATE: 2002-06-06
 45 <150> PRIOR APPLICATION NUMBER: US 60/406,784
 46 <151> PRIOR FILING DATE: 2002-08-29
 48 <150> PRIOR APPLICATION NUMBER: US 60/408,378
 49 <151> PRIOR FILING DATE: 2002-09-05
 51 <150> PRIOR APPLICATION NUMBER: US 60/409,293
 52 <151> PRIOR FILING DATE: 2002-09-09
 54 <150> PRIOR APPLICATION NUMBER: US 60/440,129
 55 <151> PRIOR FILING DATE: 2003-01-15
 57 <150> PRIOR APPLICATION NUMBER: PCT/US02/15876
 58 <151> PRIOR FILING DATE: 2002-05-17
 60 <160> NUMBER OF SEQ ID NOS: 439
 62 <170> SOFTWARE: PatentIn version 3.3
 64 <210> SEQ ID NO: 1
 65 <211> LENGTH: 19
 66 <212> TYPE: RNA

Does Not Comply
 Corrected Diskette Needed

(page 6) ↗

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TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
72 <400> SEQUENCE: 1
73 gccccagucg acgcugagc 19
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 19
78 <212> TYPE: RNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
84 <400> SEQUENCE: 2
85 cuccucugcu acucagagu 19
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 19
90 <212> TYPE: RNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
96 <400> SEQUENCE: 3
97 uugcaaccuc agccucgcu 19
100 <210> SEQ ID NO: 4
101 <211> LENGTH: 19
102 <212> TYPE: RNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
108 <400> SEQUENCE: 4
109 uauggcuccc agcagcccc 19
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 19
114 <212> TYPE: RNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
120 <400> SEQUENCE: 5
121 ccggcccgcg cugcccgcgca 19
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 19
126 <212> TYPE: RNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
132 <400> SEQUENCE: 6
133 acuccugguc cugcucggg 19
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 19
138 <212> TYPE: RNA
139 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

DATE: 10/02/2006

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TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

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141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
144 <400> SEQUENCE: 7
145 ggcucuguuc ccaggaccu 19
148 <210> SEQ ID NO: 8
149 <211> LENGTH: 19
150 <212> TYPE: RNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
156 <400> SEQUENCE: 8
157 uggcaaugcc cagacaucu 19
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 19
162 <212> TYPE: RNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
168 <400> SEQUENCE: 9
169 uguguccccc ucaaaaguc 19
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 19
174 <212> TYPE: RNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
180 <400> SEQUENCE: 10
181 cauccugccc cggggaggc 19
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 19
186 <212> TYPE: RNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192 <400> SEQUENCE: 11
193 cuccgugcug gugacaucg 19
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 19
198 <212> TYPE: RNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
204 <400> SEQUENCE: 12
205 cagcaccucc ugugaccag 19
208 <210> SEQ ID NO: 13
209 <211> LENGTH: 19
210 <212> TYPE: RNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
216 <400> SEQUENCE: 13
217 gcccaaguug uugggcaua 19
220 <210> SEQ ID NO: 14
221 <211> LENGTH: 19
222 <212> TYPE: RNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
228 <400> SEQUENCE: 14
229 agagaccccg uugccuaaa 19
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 19
234 <212> TYPE: RNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
240 <400> SEQUENCE: 15
241 aaaggaguug cuccugccu 19
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 19
246 <212> TYPE: RNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
252 <400> SEQUENCE: 16
253 uggaacaac cggaaggug 19
256 <210> SEQ ID NO: 17
257 <211> LENGTH: 19
258 <212> TYPE: RNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
264 <400> SEQUENCE: 17
265 guaugaacug agcaaugug 19
268 <210> SEQ ID NO: 18
269 <211> LENGTH: 19
270 <212> TYPE: RNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
276 <400> SEQUENCE: 18
277 gcaagaagau agccaacca 19
280 <210> SEQ ID NO: 19
281 <211> LENGTH: 19
282 <212> TYPE: RNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:43

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

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288 <400> SEQUENCE: 19
289 aaugugcuau ucaaacugc 19
292 <210> SEQ ID NO: 20
293 <211> LENGTH: 19
294 <212> TYPE: RNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
300 <400> SEQUENCE: 20
301 ccugauggg cagucaaca 19
304 <210> SEQ ID NO: 21
305 <211> LENGTH: 19
306 <212> TYPE: RNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
312 <400> SEQUENCE: 21
313 agcuaaaacc uuccucacc 19
316 <210> SEQ ID NO: 22
317 <211> LENGTH: 19
318 <212> TYPE: RNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
324 <400> SEQUENCE: 22
325 cguguacugg acuccagaa 19
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 19
330 <212> TYPE: RNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
336 <400> SEQUENCE: 23
337 acggguggaa cuggcaccc 19
340 <210> SEQ ID NO: 24
341 <211> LENGTH: 19
342 <212> TYPE: RNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
348 <400> SEQUENCE: 24
349 ccuccccucu uggcagcca 19
352 <210> SEQ ID NO: 25
353 <211> LENGTH: 19
354 <212> TYPE: RNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
360 <400> SEQUENCE: 25

```

Page 6

<400> 421

Which ribonucleotide does "N" represent?

Invalid response

See item # 13 on
error summary
sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

21

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/800,487D

DATE: 10/02/2006
TIME: 14:13:44

Input Set : E:\04-218 REVSeqList.txt
Output Set: N:\CRF4\10022006\J800487D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:421; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:422; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:423; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:424; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:425; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:426; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:427; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:428; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:429; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

DATE: 10/02/2006

PATENT APPLICATION: US/10/800,487D

TIME: 14:13:44

Input Set : E:\04-218 REVSeqList.txt

Output Set: N:\CRF4\10022006\J800487D.raw

L:8118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:421 after pos.:0
L:8150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422 after pos.:0
L:8178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:423 after pos.:0
L:8211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:424 after pos.:0
L:8244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:425 after pos.:0
L:8276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:426 after pos.:0
L:8309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:427 after pos.:0
L:8341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:428 after pos.:0
L:8374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:429 after pos.:0